

1. (previously presented) A wear-resistant electrically conductive body, comprising:

- (a) an electrically conductive body; and
- (b) an ion-accelerated, wear-resistant, electrically conductive coating on the electrically conductive body, the ion-accelerated, wear-resistant, electrically conductive coating containing contiguous metal atoms and diamond-like carbon atoms.

2. (currently amended) A plurality of wear-resistant electrically conductive circular slip-rings on a rotor, comprising:

- (a) a plurality of electrically conductive circular slip-rings on a rotor, each electrically conductive circular slip-ring having a circular, ~~v-shaped~~, outer surface; and
- (b) a circular, ~~v-shaped~~, ion-accelerated, wear-resistant, electrically conductive coating, ~~having a resistivity of less than 10^{-4} Ohm-cm~~, on the circular, ~~v-shaped~~, outer surface of each electrically conductive circular slip-ring, each circular, ~~v-shaped~~, ion-accelerated, wear-resistant, electrically conductive coating containing simultaneously ion deposited, contiguous, metal-ion-accelerated metal atoms and carbon-ion-accelerated diamond-like carbon atoms.

3. (previously presented) Each wear-resistant electrically conductive circular slip-ring of claim 2 wherein the simultaneously ion deposited, contiguous, metal-ion-accelerated metal atoms are contiguous copper-ion-accelerated copper atoms.

4. (currently amended) Wear resistant electrically conductive circular slip-rings of claim 2, each wear resistant electrically conductive circular slip-ring further comprising an interfacial layer between the circular, ~~v-shaped~~, ion-accelerated, wear resistant, electrically conductive coating and the electrically conductive circular slip-ring.

5. (previously presented) A method for making a wear-resistant electrically conductive body, comprising ion-accelerating copper ions and diamond-like carbon ions onto an electrically conductive body, the ion-accelerating of the copper ions and diamond-like carbon ions occurring simultaneously.

6. (previously presented) A wear-resistant electrically conductive body, comprising:

(a) an electrically conductive body; and

(b) an electrically conductive ion-formed diamond-like surface

on the electrically conductive body, the surface containing diamond-like, amorphous carbon and graphite, the amorphous carbon and graphite being in a contiguous configuration.

7. (previously presented) A dual ion-beam process for depositing a wear-resistant diamond-like coating on an electrically conductive surface, comprising
- (a) sputtering a surface of a diamond-like carbon source with first ion beam;
 - (b) striking carbon atoms that are on the electrically conductive surface with a second ion beam, in order to maintain the carbon atoms in a metastable state;
 - (c) adjusting power and intensity of the first ion beam in order to control an intensity of energy applied to the diamond-like carbon source; and
 - (d) adjusting power and intensity of the second ion beam, in order to control characteristics of a wear-resistant diamond-like coating on the electrically conductive surface.